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NOTICE OF ALLOWANCE AND FEE(S) DUE

7055 7590 04/24/2008 GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191 EXAMINER

LY, ANH VU H

ART UNIT PAPER NUMBER

2616

DATE MAILED: 04/24/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773 396	02/00/2004	Hiroaki Sudo	P24788	6607

TITLE OF INVENTION: METHOD AND APPARATUS FOR SETTING A GUARD INTERVAL IN AN OFDM COMMUNICATION

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off tions.	or traing the nerwise	nsmitting the ISSU Patent, advance or e in Block 1, by (a	TE FEE and PUBLICAT ders and notification of a specifying a new corre	ION FEE (if requ maintenance fees v spondence address;	ired). I vill be and/o	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Not Fee pap bay	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
7055	7590 04/24	/2008		III.			of Mailing or Trans	
GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191				I he Stat add tran	reby certify that th	is Feet	() Transmittal is being	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR	TOR ATTORNEY DOCKET NO.		CONFIRMATION NO.		
10/773,396	02/09/2004			Hiroaki Sudo			P24788	6607
				A GUARD INTERVAL				
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	07/24/2008
EXAM	INER		ART UNIT	CLASS-SUBCLASS				
LY, ANI	H VU H		2616	370-480000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ess an assignee is ident h in 37 CFR 3.11. Comp	" Indic ied. Us A TO I	ation form se of a Customer BE PRINTED ON	(1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto- listed, no name will be PHE PATENT (print or ty data will appear on the p T a substitute for filing an (B) RESIDENCE: (CTT)	vely, le firm (having as a agent) and the nam meys or agents. If printed. pe) satent. If an assign assignment.	membes of u no nan	er a 2p to p to e is 3	ocument has been filed for
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Advance Order - #	o small entity discount j		ed)	Department of Fee(s): (Plent A check is enclosed. Payment by credit care The Director is hereby overpayment, to Department The Director Is hereby overpayment.	rd. Form PTO-2038	is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	ıs. See	37 CFR 1.27.	b. Applicant is no lon				
interest as shown by the r	ecords of the United Sta	tes Pat	tent and Trademark	Office.	ine appiicant; a regi	sterea	attorney or agent; or tr	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1 U.S.C USPT rden, s O NOT	311. The informatic 122 and 37 CFR FO. Time will vary hould be sent to the SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi- e Chief Information Offic COMPLETED FORMS T	retain a benefit by t timated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minuter omment Trader S. SEN	tic which is to file (and to complete, including s on the amount of tire ark Office, U.S. Deptor 170: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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7055	7590 04/24/2008		EXAMINER			
GREENBLUM & BERNSTEIN, P.L.C.			LY, ANH VU H			
	LARKE PLACE		ART UNIT	PAPER NUMBER		
RESTON, VA 20191			2616			
			DATE MAILED: 04/24/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 844 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 844 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)						
10/773,396	SUDO ET AL.						
Examiner	Art Unit						
ANH-VIIH IV	2616						

- The MAILING DATE of this communication appears or All claims being allowable, PROSECUTION ON THE MERITS IS (OR R herewith (or previously mailed), a Notice of Allowance (PTOL-85) or oth NOTICE OF ALLOWABILITY IS NOT	EMAINS) CLOSED in this application. If not included er appropriate communication will be mailed in due course. THIS i. This application is subject to withdrawal from issue at the initia						
1. A This communication is responsive to after final amendment filed in	<u>March 21, 2008</u> .						
2. The allowed claim(s) is/are 1-11.							
3. ☐ Acknowledgment is made of a claim for foreign priority under 38 a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been 2. ☐ Certified copies of the priority documents have been 3. ☐ Copies of the certified copies of the priority documen International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE *MAILING DATE* of this noted below. Failure to timely comply will result in ABANDONMENT or	received. received in Application No ts have been received in this national stage application from the communication to file a reply complying with the requirements						
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
 A SUBSTITUTE OATH OR DECLARATION must be submitted. N INFORMAL PATENT APPLICATION (PTO-152) which gives reas 							
CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying inclica such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of sech sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Notice of Informal Patent Application Interview Summary (PTO-413), Paper No./Mail Deta Examiner's Amendment/Comment						
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance						
	9. Other						

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Art Unit: 2616

DETAILED ACTION

Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not teach or fairly suggest that the guard interval of the second valid symbol is greater than the guard interval of the first valid symbol; the second valid symbol being retransmission information and requiring higher channel quality than the first valid symbol, as specified in independent claims 1 and 11.

The prior art does not teach or fairly suggest changing the length of the guard interval of the first valid symbol in accordance with channel quality while maintaining the length of the guard interval of the second valid symbol, as specified in independent claim 8.

The prior art does not teach or fairly suggest providing the guard interval at a greater length when the valid symbol of retransmission information requires higher quality, as specified in independent claim 9.

The prior art does not teach or fairly suggest providing a guard interval of a valid symbol including retransmission information for control data at a length greater than a guard interval of a valid symbol including user data, as specified in independent claim 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

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Conclusion

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ANH-VU H. LY whose telephone number is (571)272-3175.

The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Avl

/Anh-Vu H Ly/

Primary Examiner, Art Unit 2616

Application Number

Application/Control No.	Applicant(s)/Patent under Reexamination			
10/773,396	SUDO ET AL.			
Examiner	Art Unit			
ANH-VUH LY	2616			

U.S. Patent and Trademark Office	